Eys asp phe leu ala his his gly thr tyr Eys trp thr tyr his tyr ser glu lys pro TGG TGG TGG ACT TAC CAT TAT TCT GAA AAA CCC met asn trp gln arg ale arg pre cys arg asp asn tyr thr asp leu val ala ile arg and tag can agg gct aga aga tre tgc cga gac ant tac aca gat tra gct gcc ata 70
gin asn lys ala giu ile giu tyr leu giu lys thr leu pro phe ser arg ser tyr tyr
CAA AAC AAG GCG GAA ATT GAG TAT CTG GAG AAG ACT CTG CCC TTC AGT CGT TCT TAC TAC TGG ATA GGA ATC CGG AAG ATA GGA GGA ATA TGG ACG TGG GTG GGA ACC AAC AAA TCT CTC 110

thr glu glu als glu asn trp gly asp gly glu pro asn asn lys lys asn lys glu asp ACT GAA GAA GCA GAG AAC TGG GGA GAT GGT GAG CCC AAC AAC AAG AAC AAG GAG GAC 130

Eys val glu ile tyr ile lys erg asn lys asp ale gly lys trp asn asp asp ale Eys red Gro Gro And Tog Anc Gat Gac Gro Gro Gac And Tog Anc Gat Gac Gro Gro Gac And Tog Anc Gat Gac Gro Gro Gro Gac And Tog Anc Gat Gac Gro his lys leu lys als als leu cys tyr thr als ser cys qln pro trp ser cys ser gly cac and cra hag cca gcc crc tgr tac aca gcr tcr tgc cag ccc tgg tca tgc agr ggc his gly glu cys val glu ile ile asm asm his thr cys asm cys asp val gly tyr tyr car gga gaa ngg gra gaa arc arc aar aar cac acc rec ac qly pro gln Cy3 gln leu val ile gln Cy3 glu pro leu glu ala pro glu leu gly thr GGG CCC CAG TGT CAG CTT GTG ATT CAG TGT GAG CCT TTG GAG GCC CCA GAG CTG GGT ACC met asp Cys thr his pro phe gly asn phe ser phe ser gln Cys als phe ser Cys ATG GAC [767] ACT CAC CCC TIT GGA [AAC TTC AGC] TTC AGC TCA CAG [767] GCC TTC AGC [766] ser glu gly thr asn leu thr gly ile glu glu thr thr Cys gly pro phe gly asn trp TCT GAA GGA ACA ACC TTA ACT GGG ATT GAA GAA ACC ACC TGT GGA CCA TTT GGA AAC TGG 250
Ser ser pro glu pro thr Gy3 glm val ile glm Gy3 glu pro leu ser ala pro asp leu TCA TCT CCA GAA CCA ACC 1621 CAA GTG ATT CAG 1671 GAG CCT CTA TCA GCA CCA GAT TTG 270
Gly 11e met asn Gy3 ser his pro leu ala ser phe ser phe thr ser ala Gy3 thr phe GGG ATC ATG AGC 151 AGC CAT CCC CTG GCC AGC TTC AGC TTT ACC TCT GCA TGT ACC TTC 290

11e Cys ser glu gly thr glu leu 11e gly lys lys lys thr 11e Cys glu ser ser gly
ATC TCA GAA GGA ACT GAG TTA ATT GGG AAG AAA ACC ATT TGT GAA TCA TCT GGA 110 trp ser asn pro ser pro ile Gys gln lys leu asp lys ser phe ser met ile lys ATC TGG TCA AAA CCT AGT CCA ATA TGT CAA AAA TTG GAC AAA AGT TTC TCA ATG ATT AAG 330 340 Slop Transler Sequence glu gly asp tyr asn pro leu phe ile pro val ala val met val thr ala phe ser gly GAG GGT GAT TAT AAC CCC CTC TTC ATT CCA GTG GCA GTC ATG GTT ACT GCA TTC TCT GGG met asn asp pro tyr OC ATG AAT GAC CCA TAT TAA ATCGCCCTTGGTGAAAGAAAATTCTTGGAATAGTAAAAATCATGAGATCCTTTA AATCCTTCCATGAAACGTTTTGTGTGGTGGCACCTCCTACGTCAAACATGAAGTGTGTTCCTTCAGTGCATCTGGGAA GATTTCTACCCGACCAACAGTTCCTTCAGCTTCCATTTCGCCCCTCATTTATCCCTCAACCCCCAGCCCACAGGTGTT TATACAGCTCAGCTTTTTGTGTTTTTCTGAGGAGAACAAATAAGACCATAAGGGAAAGGATTCATGTGGAATATAAAG GAAGTGCAAATTTGATACATATGTGAATATGGACTCAGTTTTCTTGCAGATCAAATTTCACGTCGTCTTCTGTATACT TGCTCAAGTTGAAAGAGTCCTATTTGCACTGTAGCCTCGCCGTCTGTGAATTGGACCATCCTATTTAACTGGCTTCAG GCCTCCCCACCTTCTTCAGCCACCTCTCTTTTTCAGTTGGCTGACTTCCACACCTAGCATCTCATGAGGTGCCAAGCAA **AAGGAGAGAGAGAGAAATAGCCTGCGCGGTTTTTTAGTTTGGGGGTTTTGCTGTTTCCTTTTATGAGACCCATTCCT**

ATTTCTTATAGTCAATGTTTCTTTTATCACGATATTATTAGTAAGAAAACATCACTGAAATGCTAGCTGCAAGTGACA
TCTCTTTGATGTCATATGGAAGAGAGTTAAAACAGGTGGAGAAATTCCTTGATTCACCAATGAAATGCTCCCCTTTCCCCT
GCCCCCAGAACTTTTATCCACTTAGCTAGATTCTACATATTCTTTAAATTTCATCTCAGGCCTCCCCCCAACCCCCAGG

GGCCGCCAGCACACTGGAATTC



Fig. 1

ser arg asn ile leu lys leu trp val trp thr leu leu cys cys asp phe leu ile his rec agg aac arc erg aag cro reg erc reg aca erg erg rec rec ara cac N.Terminus 40
his gly thr his Eye trp thr tyr his tyr ser glû lys pro met asn trp glu asn ala car gga acr cac tri tgg acr tac car tar tcr gaa aag ccc arg aac tgg gaa aar ccr ard lys phe Cyr lys gin sin tyr thr esp les val als ile gin sen lys ard glu ile AGA AAG TIC ICC AAG CAA AAT TAC ACA GAT TIA GIC GCC ATA CAA AAC AAG AGA GAA ATT glu tyr leu glu aen thr leu pro lye ser pro tyr tyr tyr trp ile gly ile arg lye GAG TAT TTA GAG AAT ACA TTG CCC AAA AGC CCT TAT TAC TAC TGG ATA GGA ATC AGG AAA 100

110 gly lys met trp thr trp val gly thr asn lys thr leu thr lys glu ala glu asn ATT GGG AAA ATG TGG ACA TGG GTG GGA ACC AAC AAA ACT CTC ACT AAA GAA GCA GAG AAC trp gly ala gly glu pro asn asn lys lys ser lys glu asp Gys val glu ile tyr ile TGG GGT GCT GGG GAG CCC AAC AAG AAG TCC AAG GAG GAC TGT GTG GAG ATC TAT ATC 140 198 arg glu arg asp ser gly lys trp ash asp asp ala Eys his lys arg lys ala sla AAG AGG GAA CGA GAC TCT GGG AAA TGG AAC GAT GAC GCC TGT CAC AAA CGA AAG GCA GCT 160

leu Cys tyr thr ala ser Cys din pro dly ser Cys asn dly ard dly dlu Cys val dlu Crc Tcc TAC ACA GCC TCT TCC CAG CCA GGG TCT TCC AAT GCC CGT GGA GAA TGT GTG GAA thr lie asm sen his thi cys lie cys asp sie gly tyr tyr gly pro gin cys gin tyr ACT ATC AAC AAT CAC ACC TGC ATC LGG GAT GCA GGG TAT TAC GGG CCC CAG TGT CAG TAT val val gin Gya giu pro leu giu ala pro giu leu giy the met asp Gya ile his pro GTC GTC CAG IGT GAG CCT TIG GAG GCC CCT GAG TIG GGT ACC AIG GAC TGC ATC CAC CCC leu gly san phe ser phe gin ser lys Cys ala phe san Cys ser giu gly arg glu leu TTG GGA AAC TTC AGC TTC CAG TCC AAG TGT GCT TTC AAC TGT TCT GAG GGA AGA GAG CTA 240 250

leu gly thr ele glu thr gin CYA gly ele ser gly sen Erp ser pro glu pro ile
CTT GGG ACT GCA GAA ACA CAG TGT GGA GCA TCT GGA AAC TGG TCA TCT CCA GAG CCA ATC 260 270 gin vel val gin Cya giu pro leu giu ala pro giu leu giy thr met asp Cya lle gGC CAA GTG GTC CAG IGT GAG CCT TTG GAG GCC CCT GAG TTG GGT ACC ATG GAC IGC ATC 280

bis pro leu gly san phe ser phe gln ser lys Cys als phe san Cyl ser glu gly arg CAC CCC TTG GGA AAC TTC AGC TTC CAG TCC AAG TCT GCT TTC AAC TGT TCT GAG GGA AGA 310 glu leu leu gly thr ala glu thr gln Eye gly ala ser gly and tip ser pro glu GAG CTA CTT GGG ACT GCA GAA ACA CAG TGT GGA GCA TCT GGA AAC TGG TCA TCT CCA GAG pro ile Cya gin giu thr ban ard ser phe ser lys ile lys giu giy asp tyr asn pro cca arc 7000 caa gag aca aac aga agt tre tra aag arc aaa gaa ggt gac tac aac ccc 340 Stop Transfer Sequence 350

leu phe lle pro val ala val met val thr ala phe aer gly leu ala phe leu lle trp
TTC TTC ATT CCT GTA GCC GTC ATG GTC ACC GCA TTC TCG GGG CTG GCA TTI ETC ATT TGG Dec als arg arg lew lys lys gly lys lys ser gln glu arg met asp asp pro tyr OP TG GCA AGG CGG TTA AAA AAA GGC AAG AAA TCT CAA GAA AGG ATG GAT GAT CCA TAC TGA tteateetttetbaaaggaaageeatgaagtbetaaagaeaaaacattbgaaaataacgteaagteeteeegtbaaga TTTTACACGCAGGCATCTCCCACATTAGAGATGCAGTGTTTGCTCAACGAATCTGGAAGGATTTCTTCATGACCAACA GCTCCTAATTTCCCCTCGCTCATTCATCCCATTAACCCTATCCCATAATGTGTGTCTATACAGAGTAGTATTTTA TEATETTTTCTGTGGAGGAACAAGCAAAGTGTTACTGTAGAATATAAAGACAGCTGCTTTTACTCTTTCCTAACTCT TGTTTCCTAGTTCAATTCAGCACAGAAGCTAATGCCAAACACAUTGAAAATATGATCCATGAGTAATTGGAAACTCAG ACTECTTGCGCATAGTACGTACCCTATGTAACATCGACAAAAATCTTTCATTTCCACCTCCAAAGAACAGTGCTCTAT TCCCCATCTCCTTTTCCTAGGAGAATAATTCCACACACTGCACCCCATGATGGCCACCAAACATCAAAGAAGGGAAAA TCTCCTGCATTGAGTTTTAGTTTTGAGTTTTCCCTTCTCTTTATTAGATCTCTGATGGTTCCTTGAAGTCAGTGTTCT GATGATTATTAATAGTTAATGATAACACAACCCACTCTCTTGGAGCTGATGTTATGAAGACAACAGGTAGAAAAATTC CTGGGCTCAGGCTGGAGTGACACCCCTTTTCTTTCCCTAACATCTTCTACTCAGATACCTAAATTTAAGATTCAGGACA GCTGTCCCCAACTCTTACCATGTCTTTTATAACTTGCTCCTTAACTTGCCCAACCTGTAGGCTATCTCATTTTCTCGC

F19. 2

T S N

PMN G K MWT W SEKPMN GGIWT GIRKI C S EGTYWGSRNILKLWVWTLLCCOFLIHHGTHCWTYHY P Y Y WI RSYYWI KONYTDLVAIONKAEIEYLENTLPKS RDNYTDLVAIONKAEIEYLEKTLPFS Lectin Domain OO ж к п п A A A A ΞĮ MLHR HLHR MLHR HLHR

Signal Sequence

GTNKTLTKEAENWGAGEPNNKKSKEDCVE! Y! KRERDSGKWNDDACHKR GTNKSLTEEAENWGDGEPNNKKNKEDCVE! Y! KRNKDAGKWNDDACHKL HLHR MLHK

1 NNHTCI CDAGYYGPOCOYVVOCEPLINHHTCNCDVGYYGPOCOLVI OCEPL PANTANA SANTANA SANTANA PENDANA SANTANA KAALCYTASCOPGSCNGRGECVET MLHR HLHR

APELGT MDC1 HPLGNFSFOSKCAFNCSEGRELLGTAET OCGASGNWSSPAPELGT MDCTHPFGNFSFSSOCAFSCSEGT NLTG1 EETTCGPFGNWSSP Complement Binding Repeat 1 EAPELGTMDCI HLHR MLHR

COVVOCEPLEAPEL GTMDCI HPL GNFSFOSKCAFNCSEGRELL COVI OCEPLSAPDLGI MNCSHPLASFSFTSACTFI CSEGTELI Complement Binding Repeat 2 - F MLHR HLHR

Transmembrane Domain GLAF Ö SGNWSSPEPICOETNRSFSKIKEGDYNPLFIPVAV MVTAFS SGIWSNPSPICOKLDKSFSMIKEGDYNPLFIPVAV MVTAFS O C G A S MCHR

MLHR LI WLARRLKKGKKSOERMDDPY HLHR I WLARRLKKGKKSKRSMNDPY

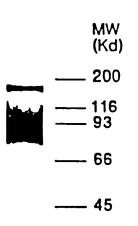


Fig.4A

Fig. 4 B

T H K M KF K V<u>V</u>I<u>L</u> K

1 10 20 30

XTYHYS<u>EKPMNWENA</u>RKFXKQNYTDLVAIQNKXXIEYL

Fig.4c

A A C A C 5' GAG AAG CCC ATG AAT TGG GAG AAT GC 3'

Fig. 5

A B C D E F MW (Kd)

-- 200

-- 97

-- 68

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u		KWNDDACHKRKAA-LC		_		•									
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